

CERTIFICATE OF ANALYSIS



SAMPLE INFORMATION

| | | | |
|---------------|----------------------|-------------------|------------------|
| Sample Name: | HAPY: MANGO TINCTURE | Sample Matrix: | Tincture |
| Sample Id: | 115880 | Batch Id: | HPY.SY.MG-001 |
| Collected: | 05/28/2019 10:55 | Received: | 05/28/2019 15:55 |
| Serving Size: | ~6 ml | Serv. Per Sample: | 20 |
| Batch Size: | 300 units | Sample Size: | 5 units |
| Density: | 1.4 mg/ml | Overall Result: | Pass |

DISTRIBUTOR INFO

| | | | |
|-----------------|--|-----------|-----------|
| Business Name: | Green Rose Green Leaf Care, Inc. (Edibles) | | |
| Street Address: | 1325 Saint Andrew Pl. E | City: | Santa Ana |
| State: | CA | Zip Code: | 92705 |
| License: | C11-18-0000671-TEMP | | |

MANUFACTURER INFO

| | | | |
|-----------------|--------------------------------------|-----------|-----------|
| Business Name: | Stone Service Inc., DBA Hapy Edibles | | |
| Street Address: | 300 E San Antonio Dr | City: | King City |
| State: | CA | Zip Code: | 93930 |
| License: | CDPH - 10002786 | | |

CANNABINOID ANALYSIS

ⓘ Total THC,CBD value(s) have been decarboxylated.

| | |
|---------------------|---|
| TOTAL THC: | 45.99 mg per serving (7.775 mg/mL) (0.5554 %) |
| TOTAL CBD: | 0.4239 mg per serving (0.0717 mg/mL) (0.0051 %) |
| TOTAL CANNABINOIDS: | 50.04 mg per serving (8.461 mg/mL) (0.6043 %) |

TEST TYPE RESULT: N/A
UNIT OF MEASUREMENT: Milligrams per Milliliter(mg/mL)

| ANALYTE | RESULT | LOD | LLOQ | ANALYTE | RESULT | LOD | LLOQ |
|---------|-------------------------|--------|--------|---------|-------------------------|--------|--------|
| D9THC | 7.764 mg/mL (0.5546 %) | 0.0020 | 0.0050 | D8THC | ND | 0.0020 | 0.0050 |
| THCa | 0.0128 mg/mL (0.0009 %) | 0.0020 | 0.0050 | CBG | 0.3161 mg/mL (0.0226 %) | 0.0020 | 0.0050 |
| CBN | 0.1088 mg/mL (0.0078 %) | 0.0020 | 0.0050 | CBD | 0.0717 mg/mL (0.0051 %) | 0.0020 | 0.0050 |
| CBDa | ND | 0.0020 | 0.0050 | CBGa | ND | 0.0020 | 0.0050 |
| THCv | 0.1046 mg/mL (0.0075 %) | 0.0020 | 0.0050 | CBC | 0.0824 mg/mL (0.0059 %) | 0.0020 | 0.0050 |
| CBDv | ND | 0.0020 | 0.0050 | | | | |

ADDITIONAL INFORMATION

Method: SOP-TECH-001
Instrument: UPLC-DAD

Sample Prepped 05/31/2019 17:16
Sample Analyzed 05/31/2019 17:19

Sample Approved 06/03/2019 12:28



CERTIFICATE OF ANALYSIS

 CHEMICAL RESIDUE ANALYSIS

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: **Micrograms per Gram(ug/g)**

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL |
|---------------------|--------|--------|--------|--------------------|---------------|--------|--------|--------|--------------------|
| Acephate | ND | 0.0200 | 0.0400 | 5.000 Pass | Acequinocyl | ND | 0.0200 | 0.0400 | 4.000 Pass |
| Acetamiprid | ND | 0.0200 | 0.0400 | 5.000 Pass | Aldicarb | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Azoxystrobin | ND | 0.0200 | 0.0400 | 40.00 Pass | Bifenazate | ND | 0.0200 | 0.0400 | 5.000 Pass |
| Bifenthrin | ND | 0.0200 | 0.0400 | 0.5000 Pass | Boscalid | ND | 0.0200 | 0.0400 | 10.00 Pass |
| Carbaryl | ND | 0.0200 | 0.0400 | 0.5000 Pass | Carbofuran | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Chlorantraniliprole | ND | 0.0200 | 0.0400 | 40.00 Pass | Chlorfenapyr | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Chlorpyrifos | ND | 0.0200 | 0.0400 | 0.0 Pass | Clofentezine | ND | 0.0200 | 0.0400 | 0.5000 Pass |
| Cypermethrin | ND | 0.0400 | 0.1000 | 1.000 Pass | Daminozide | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Dichlorvos | ND | 0.0200 | 0.0400 | 0.0 Pass | Diazinon | ND | 0.0200 | 0.0400 | 0.2000 Pass |
| Dimethoate | ND | 0.0200 | 0.0400 | 0.0 Pass | Ethoprophos | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Etofenprox | ND | 0.0200 | 0.0400 | 0.0 Pass | Etoxazole | ND | 0.0200 | 0.0400 | 1.500 Pass |
| Fenoxycarb | ND | 0.0200 | 0.0400 | 0.0 Pass | Fenpyroximate | ND | 0.0200 | 0.0400 | 2.000 Pass |
| Fipronil | ND | 0.0200 | 0.0400 | 0.0 Pass | Fonicamid | ND | 0.0200 | 0.0400 | 2.000 Pass |
| Fludioxonil | ND | 0.0200 | 0.0400 | 30.00 Pass | Hexythiazox | ND | 0.0200 | 0.0400 | 2.000 Pass |
| Imazalil | ND | 0.0200 | 0.0400 | 0.0 Pass | Imidacloprid | ND | 0.0200 | 0.0400 | 3.000 Pass |
| KresoximMethyl | ND | 0.0200 | 0.0400 | 1.000 Pass | Malathion | ND | 0.0200 | 0.0400 | 5.000 Pass |
| Metalaxyl | ND | 0.0200 | 0.0400 | 15.00 Pass | Methiocarb | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Methomyl | ND | 0.0200 | 0.0400 | 0.1000 Pass | Myclobutanil | ND | 0.0200 | 0.0400 | 9.000 Pass |
| Naled | ND | 0.0200 | 0.0400 | 0.5000 Pass | Oxamyl | ND | 0.0200 | 0.0400 | 0.2000 Pass |
| Paclobutrazol | ND | 0.0200 | 0.0400 | 0.0 Pass | Phosmet | ND | 0.0200 | 0.0400 | 0.2000 Pass |
| PiperonylButoxide | ND | 0.0200 | 0.0400 | 8.000 Pass | Prallethrin | ND | 0.0200 | 0.0400 | 0.4000 Pass |
| Propoxur | ND | 0.0200 | 0.0400 | 0.0 Pass | Pyridaben | ND | 0.0200 | 0.0400 | 3.000 Pass |
| Spiromesifen | ND | 0.0200 | 0.0400 | 12.00 Pass | Spirotetramat | ND | 0.0200 | 0.0400 | 13.00 Pass |
| Spiroxamine | ND | 0.0200 | 0.0400 | 0.4000 Pass | Tebuconazole | ND | 0.0200 | 0.0400 | 2.000 Pass |
| Thiacloprid | ND | 0.0200 | 0.0400 | 0.0 Pass | Thiamethoxam | ND | 0.0200 | 0.0400 | 4.500 Pass |
| Trifloxystrobin | ND | 0.0200 | 0.0400 | 30.00 Pass | Abamectin | ND | 0.0200 | 0.0400 | 0.3000 Pass |
| Cyfluthrin | ND | 0.1000 | 0.2000 | 1.000 Pass | Permethrins | ND | 0.0200 | 0.0400 | 20.00 Pass |
| Propiconazole | ND | 0.0200 | 0.0400 | 20.00 Pass | Pyrethrins | ND | 0.0178 | 0.0356 | 1.000 Pass |
| Spinosad | ND | 0.0200 | 0.0400 | 3.000 Pass | Coumaphos | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Fenhexamid | ND | 0.0200 | 0.0400 | 10.00 Pass | Spinetoram | ND | 0.0200 | 0.0400 | 3.000 Pass |
| Dimethomorph | ND | 0.0099 | 0.0198 | 20.00 Pass | Mevinphos | ND | 0.0100 | 0.0200 | 0.0 Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-002
 Instrument: LC-MS/MS

Sample Prepped 05/29/2019 19:31
 Sample Analyzed 05/29/2019 19:31

Sample Approved 05/30/2019 12:08



CERTIFICATE OF ANALYSIS

CHEMICAL RESIDUE GC ANALYSIS

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL |
|-----------|--------|--------|--------|--------------------|-----------------|--------|--------|--------|-------------------|
| Chlordane | ND | 0.0400 | 0.1000 | 0.0 Pass | Captan | ND | 0.1000 | 0.2000 | 5.000 Pass |
| PCNB | ND | 0.0200 | 0.0400 | 0.2000 Pass | MethylParathion | ND | 0.0400 | 0.1000 | 0.0 Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-010 Sample Prepped 05/29/2019 19:31 Sample Approved 05/30/2019 17:43
 Instrument: GC-MS/MS Sample Analyzed 05/29/2019 19:31

RESIDUAL SOLVENT ANALYSIS

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL |
|-------------------|--------|--------|--------|-------------------|--------------------|------------|--------|--------|-------------------|
| Chloroform | ND | 1.000 | 2.500 | 1.000 Pass | Acetone | ND | 2.500 | 5.000 | 5000 Pass |
| Methanol | ND | 1.000 | 2.500 | 3000 Pass | Ethanol | 14.73 ug/g | 1.000 | 2.500 | 5000 Pass |
| Benzene | ND | 1.000 | 2.500 | 1.000 Pass | Toluene | ND | 0.2500 | 0.5000 | 890.0 Pass |
| Pentane | ND | 1.000 | 2.500 | 5000 Pass | Hexane | ND | 0.2500 | 0.5000 | 290.0 Pass |
| Heptane | ND | 0.2500 | 0.5000 | 5000 Pass | Ethyl Acetate | ND | 2.500 | 5.000 | 5000 Pass |
| Propane | ND | 5.000 | 10.00 | 5000 Pass | Acetonitrile | ND | 0.5000 | 1.000 | 410.0 Pass |
| Ethyl Ether | ND | 10.00 | 50.00 | 5000 Pass | 1,2-Dichloroethane | ND | 0.2500 | 0.5000 | 1.000 Pass |
| Butane | ND | 24.00 | 48.00 | 5000 Pass | Methylene chloride | ND | 0.2500 | 0.5000 | 1.000 Pass |
| Ethylene oxide | ND | 0.5000 | 1.000 | 1.000 Pass | Isopropyl Alcohol | ND | 0.2500 | 0.5000 | 5000 Pass |
| Trichloroethylene | ND | 0.2500 | 0.5000 | 1.000 Pass | Xylenes | ND | 0.5000 | 1.000 | 2170 Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-021 Sample Prepped 06/01/2019 16:16 Sample Approved 06/03/2019 17:03
 Instrument: HS-GC-MS/FID Sample Analyzed 06/01/2019 16:16



CERTIFICATE OF ANALYSIS

MICROBIAL ANALYSIS

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: Cycle Threshold (Ct)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL |
|-------------|--------|-------|------|-----------------|----------------|--------|-------|------|-----------------|
| A.fumigatus | ND | 33.00 | 0.0 | 0.0 Pass | A. flavus | ND | 33.00 | 0.0 | 0.0 Pass |
| A. niger | ND | 33.00 | 0.0 | 0.0 Pass | A. terreus | ND | 33.00 | 0.0 | 0.0 Pass |
| STEC | ND | 33.00 | 0.0 | 0.0 Pass | Salmonella spp | ND | 33.00 | 0.0 | 0.0 Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-016, SOP-TECH-022 Sample Prepped 05/30/2019 08:12 Sample Approved 05/30/2019 13:49
 Instrument: qPCR Sample Analyzed 05/30/2019 08:12

FILTH & FOREIGN MATERIAL

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: Filth and Foreign Matter (%)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL |
|----------|--------|-----|------|-------------------|---------|--------|-----|------|-------------------|
| SSCD | ND | 0.0 | 0.0 | 25.00 Pass | Mold | ND | 0.0 | 0.0 | 25.00 Pass |
| IF RH ME | ND | 0.0 | 0.0 | 3.000 Pass | IFM | ND | 0.0 | 0.0 | 25.00 Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-009 Sample Prepped 05/29/2019 12:54 Sample Approved 05/29/2019 15:02
 Instrument: Visual Inspection Sample Analyzed 05/29/2019 14:15

HEAVY METALS

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL |
|---------|-------------|-----|--------|--------------------|---------|--------|-----|--------|--------------------|
| Lead | 0.0545 ug/g | 0.0 | 0.0050 | 0.5000 Pass | Mercury | <LLOQ | 0.0 | 0.0050 | 3.000 Pass |
| Arsenic | ND | 0.0 | 0.0050 | 1.500 Pass | Cadmium | <LLOQ | 0.0 | 0.0050 | 0.5000 Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-013 Sample Prepped 05/30/2019 07:32 Sample Approved 05/30/2019 15:17
 Instrument: ICP-MS Sample Analyzed 05/30/2019 08:05



CERTIFICATE OF ANALYSIS

 **MYCOTOXINS**

TEST TYPE RESULT: **Pass**
UNIT OF MEASUREMENT: **Micrograms per Kilogram(ug/kg)**

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL |
|----------------------|--------|-------|-------|-------------------|--------------|--------|-------|-------|-------------------|
| Aflatoxins-B1-2-G1-2 | ND | 10.00 | 14.00 | 20.00 Pass | Ochratoxin A | ND | 1.000 | 2.000 | 20.00 Pass |

ADDITIONAL INFORMATION

Method: *SOP-TECH-020*
Instrument: *LC-MS/MS*

Sample Prepped *05/29/2019 17:43*
Sample Analyzed *05/29/2019 18:09*

Sample Approved *05/30/2019 09:26*

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented, or abstracted in any manner. Any violation of these conditions renders the report and its results void.

All LQC samples required by state regulations were performed and met the acceptance criteria.

DATA REVIEWED AND APPROVED BY

06/04/2019

Swetha Kaul, PhD
Chief Scientific Officer

Date

